

ERCOT
SYSTEM PROTECTION WORKING GROUP
MEETING MINUTES

CenterPoint Energy

1301 Travis

Houston, TX.

February 23, 2006 1:00PM - 4:00PM

February 24, 2006 8:30AM - 10:45AM

Attendees:

Chronister, Mark	TXU Electric Delivery	Member
Dahnke, Jack	CenterPoint Energy	Member, Outgoing
Davis, Conrad	ERCOT	Staff
DiSanto, Dotty	STEC	Member
Ginsburg, Stan	Brazos Electric Coop	Member/Chair
Gurley, Rick	TMPA	Member/Vice Chair
Hargrave, Glenn	CPS Energy	Member
Henry, Mark	ERCOT	Staff
Huynh, Danh	DGG and GP&L	Co-Member
Jackson, Doug	AEP	Member
Klusman, Armin	CenterPoint Energy	Member, Incoming
Mathew, Shirley	LCRA	Member
Matus, Frank	PUB	Member
Rocha, Paul	CenterPoint Energy	Guest
Sevcik, Don	CenterPoint Energy	Guest
Vatani, Mehrdad	Austin Energy	Member
Vick, Frank	ERCOT	Staff
Wallin, Shane	ERCOT	Staff
Woolard, Sam	TNMP	Co-Member

Antitrust admonition

Stan Ginsburg read the ERCOT Antitrust Admonition statement and noted the need to comply with it. The statement and antitrust guidelines were included with information emailed to members prior to the meeting.

Meeting Format

Stan Ginsburg discussed the format of the meeting. The one day format was used a number of years ago, and the format was changed to the two half-days format in the past few years. Members agreed that we should keep the two half-days format. Stan said that he would also try to distribute the meeting information in one zip file at least one week prior to the meeting so that members could have all information in one place. Members can then print the information for the meeting or view the information on a portable PC that they bring with them.

Roster review/update

The members and guests passed around the roster for review and update. Armin Klusman will be replacing Jack Dahnke as the SPWG member for CenterPoint Energy, and Sam Woolard will be replacing Mahmood Quershi as the SPWG co-member for TNMP.

ROS Update

Stan Ginsburg gave a short update of ROS activities from the last ROS meeting.

Status of 2006 Database Revisions

Conrad Davis told the group that he had received information from all member companies for Pass 1 of the 2006 Short Circuit Database revision. He said based on what he had seen, ERCOT should have no trouble posting the current year's case by March 15, the date shown on the SPWG's calendar.

Operationally Significant 138 kV Elements

At this point Mark Carpenter of TXU Electric Delivery joined the meeting by phone conference call. Mark is also the ERCOT representative on the NERC System Protection and Control Task Force. Conrad Davis started the discussion by telling the group that the list distributed in the last couple of months by ERCOT as the draft list for Operationally Significant 138 kV Elements was being rescinded and was no longer valid. Conrad noted that ERCOT would be distributing a new list soon. He also said that although the first list was relatively short in length, he expected the new list to be even shorter. Mark reminded the group and ERCOT staff that the NERC "Protection System Review Program - Beyond Zone 3" has a December 31, 2006, deadline (p.11) reading, "TPSO's submit review status and report mitigation plans (including Temporary Exception Requests) and submit Technical Exception Requests to Regions for review and acceptance." Mark also reminded the group to check the deadlines given in the same paper concerning 200 kV and above circuits (p. 10).

Beyond Zone 3

Mark Carpenter gave the group a brief history and background of this NERC document. Mark noted that although basic 138 kV line relaying was excluded from the document, it did include items to check such as switch-onto-fault logic, large autotransformer overload relays (for transformers with low side voltages above 100 kV), pilot relaying, and out-of-step relays.

Load Encroachment

Mark Carpenter discussed the background and application of the NERC paper, "Increase Line Loadability by Enabling Load Encroachment Functions of Digital Relays." A show of hands indicated that the majority of the group was already using this procedure or something similar.

NERC SPCTF Activities

Mark Carpenter updated the group on things being discussed at the NERC SPCTF. Noted especially was the fact that NERC was working on protective relaying redundancy guidelines, a document that may be of significant size, and might be of major cost to implement. Mark Carpenter left the meeting after this discussion.

NERC Submissions by ERCOT

Mark Henry and Frank Vick discussed a recent submission to NERC (2005 CEP submittals for CRG review of PRC-002 and PRC-014) that ERCOT had made originally in November and to which NERC had responded in January saying that ERCOT guides were lacking in some respects. Mark had sent an email in early February to SPWG members asking for some assistance with his reply. Mark said he sent in an ERCOT response, but as of our meeting date, has not received a reply. Mark will keep the group updated on this matter. The response from NERC may require operating guide revisions on our part. Mark thanked the members of the group who assisted him with the reply.

OGRR's

Frank Vick discussed a draft of an OGRR that he had sent to our group by email February 9, 2006. The suggested OGRR would make some wording changes and fulfill the requirements of NERC Standard PRC-005-0. Members were asked to review that draft and submit changes or comments to the group chair.

Relay Maintenance Survey

Frank Vick and Mark Henry discussed the survey results that Frank had emailed to the group February 2, 2006. Some members found the document hard to read because of its size, and it was suggested that they reduce the size of columns to better view it. Mark said that now that we have these results, the group now needed to begin work on an operating guide revision to give ERCOT members maintenance guidelines and requirements. The four groups of main interest are battery systems, communications equipment for relaying, relays, and instrument transformers. The chair asked the members who had originally worked on the survey to begin working on the first steps of putting requirements into the ERCOT operating guides. Those members are Rick Gurley, Dottie DiSanto, Doug Jackson, and Mark Chronister. Mark Henry will send the group guides from another NERC region to use as a guide.

Relay Performance Report

Frank Vick presented these figures to the group. No action is necessary.

Relay Disturbance Issues

Mark Henry discussed the background concerning NERC Standards ver. 0. He said there are presently 24 standards in the review process and 8 more have been through the review process but have not been implemented as of our meeting date. One concerned relay Misoperation reporting, which ERCOT already does, and another concerns undervoltage load shedding, which Mark will mention to the Disturbance Working Group. Mark said that although NERC had not imposed financial penalties in the past, that they might implement these in the future. Mark said that we may want to keep up with NERC guide revisions by occasionally viewing the NERC website.

Exchange of System Maps and Single Line Diagrams

A number of companies had sent their maps and single line diagrams to other companies by email before the meeting. Others brought paper copies and CD's to the meeting for exchange. CenterPoint Energy said that, due to company policies, they could not openly exchange this information. They noted that if other companies need CPE system maps or single line diagrams for a specific purpose, such as working on interconnecting relay settings or on the short circuit database, they could ask the CenterPoint Energy working group member, who could probably get the information for them once they have signed a confidentiality agreement with CPE. Stan Ginsburg said that the group would try to do away with paper copies next year and make the information exchange all electronic. ERCOT said that although they presently do not have any means of coordinating this information for us, that they may get techniques in the future to accomplish this.

General Discussion and Information Exchange

No items were brought up concerning protective relaying. Stan Ginsburg questioned ERCOT staff on whether revisions to the Working Group Procedures had ever been approved by ROS late in 2004 or early in 2005. The present copies distributed by ERCOT shows an approved date of August 21, 2002; however, the working group revised the Procedures at the November, 2004 meeting. Stan Ginsburg asked ERCOT staff to check on this.

Review Items requiring submittal before the next working group meeting

The group went over the current calendar, distributed after the November, 2005 meeting. Particularly mentioned were the future years cases and the misoperations reports.

Site of Next Meeting

AEP (Doug Jackson) volunteered to host the next meeting in Corpus Christi on July 27 and 28.